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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/078,975	02/19/2002	Petrus Henricus Cornelius Bentvelsen	NL010104	6523
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EXAMINER TRUONG, THANHNGA B				
ART UNIT 2435		PAPER NUMBER		
MAIL DATE 10/29/2008		DELIVERY MODE PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary**Application No.**

10/078,975

Applicant(s)BENTVELSEN, PETRUS
HENRICUS CORNELIUS**Examiner**

Thanhnga B. Truong

Art Unit

2435

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 June 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 2-10 and 16-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3, 6-10 and 19 is/are rejected.
- 7) ☒ Claim(s) 4-5, 16-18, and 20-26 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

1. This action is responsive to the communication filed on June 19, 2008. Claims 2-10 and 16-26 are pending. Claims 1 and 11-15 are cancelled, claims 20-26 are newly added by the applicant. At this time, claims 2-10 and 16-26 are still rejected.

Response to Arguments

2. Applicant's arguments filed June 19, 2008 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Sauer et al (US 5,574,407).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-3, 6-10, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nagano (US 5,570,339), and further in view of Sauer et al (US 5,574,407).

a. *Referring to claim 1:*

i. Nagano teaches a method of embedding a secondary signal (inputted signal frequency signal, column 11, lines 61-67 of Nagano) of a secondary channel (interpreted as the channel which shows the flow of the key information inputted to the frequency generator 23 to the photomodulator 62, at Figure 15 of Nagano) in the bitstream of a primary signal (waveform string, column 11, lines 51-60 of Nagano) of a primary channel comprising:

(1) distorting the bitstream of the primary signal by a particular distortion (**in the photomodulator 62, the inputted waveform string and the inputted signal frequency signal are mixed and modulated a driving current of**

the semiconductor laser incorporated in the photomodulator 62, at column 11, line 66 through column 12, line 2 of Nagano); and

(2) outputting the bitstream of the primary signal having the distorted bitstream **(the information signal is recorded in the rewritable optical disc 64, at Figure 15, and column 12, lines 2-8 of Nagano),**

(3) wherein the secondary signal is represented by the particular distortion **(Figure 23 generates a signal of single frequency according to the key information, at column 11, lines 61-65 of Nagano).**

ii. Although Nagano taught the claimed subject matter, Nagano is silent on the capability of showing wherein distorting the bitstream of the primary signal comprises inserting local phase errors in the bitstream of the primary signal. On the other hand, Sauer teaches this limitation in abstract and more details in column 1, lines 43-67 of Sauer.

iii. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to:

(1) have modified the invention of Nagano with the teaching of Sauer to improve the technique of embedding.

iv. The ordinary skilled person would have been motivated to:

(1) have modified the invention of Nagano with the teaching of Sauer to enhance the phase lock loop with error consistency detector.

b. Referring to claim 3:

i. Although Nagano and Sauer teach the claimed subject matter, Sauer further teaches:

(1) wherein the absolute value of the phase error is chosen such that it is smaller than the channel clock period of the primary channel **(column 7, lines 13-24 of Sauer).**

c. Referring to claim 6:

i. Although Nagano and Sauer teach the claimed subject matter, Nagano further teaches:

(1) wherein the bitstream of the primary signal of the primary channel consists of a stream of bits **(which is inherently taught by Nagano as Nagano describes converting a sound signal into digital data using A/D converter, at column 11, lines 51-53 of Nagano)** for being recorded on an optical data carrier **(optical disc 64, at Figure 15 of Nagano)**, in the form of lands and marks **(information pits, at Figure 15 of Nagano)**.

d. Referring to claim 7:

i. Although Nagano and Sauer teach the claimed subject matter, Nagano further teaches:

(1) wherein the secondary signal comprises a copy protection key or a digital right **(key information, at column 11, lines 61-65, and abstract of Nagano)**.

e. Referring to claim 8:

i. This claim consists an apparatus for embedding a secondary signal of a secondary channel in the bitstream of a primary signal of a primary channel to implement claim 1 and is rejected with the same rationale applied against claim 1 above.

f. Referring to claim 19:

i. This claim has limitations that is similar to those of claim 6, thus it is rejected with the same rationale applied against claim 6 above.

Allowable Subject Matter

5. Claims 4-5, 16-18, and 20-26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Art Unit: 2435

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanhnga (Tanya) Truong whose telephone number is 571-272-3858.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached at 571-272-3859. The fax and phone numbers for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2100.

/Thanhnga B. Truong/

Primary Examiner, Art Unit 2135

TBT

November 1, 2008